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CENTRAL INTELLIGENCE AGENCY

Types of tubes	Prices for a the Russians	b. the Germans
5 Z 5 and LD 6 L 6 and LD	9 300 DM 0 11 200 0 12 200 23 AB 400 20	330 DM 250 250 600 25

## Prices for Russians Only

5 Z 4, 6 X 5, 6 J 5 6 B 8, 6 F 7, 6 V 6, 6 H 8,	10	DM
6 L 6, 25 L 6, 6 E 8, 6 SA 7 6 K 7, 6 SC 7, 6 SH 7, 6 AC 7.	20	
6 E 5, 6 SK 7, 6 AF 7, 6 Q 7, 6 SN 7, 6 AH 7, 6 F 5, 6 SQ 7	15	
6 A 8	3	
6 K 8	ź	
6 C 5	ıï	
6 н 6	12	
6 J 7	13	
25 Z 6	18	
R 566	15,000	(sic)

4. For the year 1949 the following raw material consumption is estimated:

Iron	180 tons
Copper	10 tons
Brass	25 tons
Bronze	15 tons
Nickel	18 tons
Aluminum	18 tons
Insulating materials	20 tons

5. Concerning the direct reparations deliveries, the OSW has to produce the following:

150 glow current-rectifiers for 200,000 volts

100 discharge tubes

10,000 stabilizers

1,000 Heissleiter

25,000 high-frequency pentodes

20,000 tubes of type 6 AG 7

500 impulse tetrodes

50 blue-light cathode ray tubes

6. The value of production in May amounted to the following:

Radio tubes 600,000 DM; production quota 900,000 DM

Special tubes 400,000 DN; " 500,000 DM

Tungsten and molybdenum wires 150,000 DM; production quota 150,000 DM Other products 200,000 DM; production quota 200,000 DM CENTRAL INTELLIGENCE AGENCY

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During the same period, 500,000 DM were spent for experimental purposes. Of that amount, 350,000 DM were consumed for the completion of Russian projects and the remaining 150,000 DM for DWK jobs. Of the latter sum, 20,000 DM were set aside for experiments in the field of electron microscopy.

- 7. The amplification of electrical waves by semi-conductors there is this effect in the use of Germanium crystal is to be further developed by Dr. Brond. It is intended to overtake the American lead. (Transistors)
- The DWK invested 200,000 DM in the OSW for the production of electron microscopes. Five of the already completed microscopes are to remain in the East Zone; of these, one is to remain in the OSW for further development, one in the former Kaiser-Wilhelm Institute in Berlin-Buch, one in the Berlin University and two others in medical clinics. Research projects which are to be carried out with these instruments must first be approved by the Russians. The projects are supervised by the DWK, which must also see to it that the results of the experiments are placed at the disposal of the Russians.
- 9. The former branch of the Lorenz firm in Leipzig is building at present several transmitters with an antenna imput of 100 kW, which are to be installed in the East Zone and in satellite countries. In the OSW there is already a paid order for 50 transmitter tubes and accessories for these transmitters. The order is to be increased to 100 in the near future.
- 10. Hungary has ordered 600 X-ray tubes. Of this number, 300 are to be designated for industry and for medical purposes respectively.
- 11. The reject quota of 50% mentioned in a previous report was lowered to 12.5% as a result of the improvement of the pastes. The original deterioration of the production is traced back to impure raw materials.

It has come to light that the supplying firms are concerned above all in fulfilling the delivery quota, without consideration to the quality. Whereas formerly the delivered raw materials could be used without further scrutiny because their purity was guaranteed by the supplying firm, every delivery must be examined now.

The supply of low-grade materials was not only noted in the case of chemicals, but the nickel and copper anodes also proved to be impure. Rejects amounted to 60%. Nickel plate used in the production of tubes also had to be returned because the impurities were too great. In the month of May, 35 kg. of tungsten bars had to be purified and remelted since the tungstic acid delivered from the IG Bitterfeld contained considerable foreign admixtures. The tungsten wires produced from the impure material had such low tensile strength that drawing to small diameters was impossible. In other deliveries considerable deficiencies showed up as well. Therefore, the following firms were excluded from future deliveries to the SAG "Pribor";

Firma Ellinger and Geissler, Dorfhain in Saxony (a VEB); delivered tube bases were 50% rejects.

Firma "Marten" (SAG) Chemnitz; delivered pig iron castings were impure and contained bubbles.

Firma Richter, Rochlitz in Saxony; delivered sockets were 100% rejects.

Firma Mongel, Berlin, Niederschönhausen; delivered brass nuts were 75% rejects.

Firma Hössner, (no location given); delivered tube rivets were 100% rejects.

Firma Pallos, Berlin SO-36, Heidelbergstrasse; delivered cylinder screws were 50% rejects.

Firma Hermann and Erich R. Reichardt, Goldleistenfabrik, Berlin N 54, Brunnenstr.; delivered pinion gears were 50% rejects.

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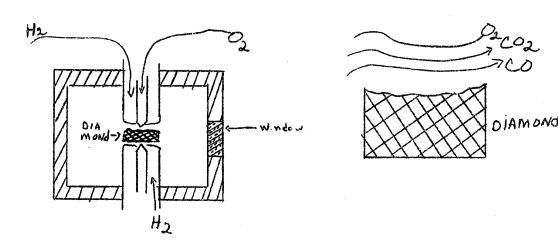
- 19. In spite of the lifting of the blockade, the delivory difficulties for goods from the West Zones still exist. Lacking above all are the following: FeN2, FeP2, Cr-Si-sheets, Nickel sheets, Nickel foil, Wo-ard Mo-sheets, Armco steel, NCT sheets, Sicoromal sheets, Hydrokollag used for blue light cathode ray tubes, barium acid, glycerine, formic acid, chromic acid, rare gases, rape seed oil, clive oil, vacuum pump oil, special measuring instruments, vacuum pumps of first quality.
- 14. It is known that some firms in the West Zones are prohibited to deliver certain products to the East Zone. Among these are the following:

Heraeus Vakuumschmelze in Frankfurt

Vereinigte Deutsche Nickelwerke in Schwerte/Ruhr

Badische Anilin-und Sodafabrik in Ludwigshafen/Rhein

Griesogen in Hanau has been forbidden to deliver rare gases, while Badische Anilin has been forbidden to deliver nickel powder. The nickel powder, which is produced from nickel oxalate in the East Zone costs 25 DM/kg., while it can be procured from the Western Zones at a cost of 3.15 DM/kg. In the price comparison, the exchange rate of one West Mark  $_{\square}$  five East Marks was used as a basis.



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